

## FORECASTS BY FOSTER.

**Severe Storm This Month--Will Be of More Than Usual Force--Preceded  
by High Temperatures in Middle and Northern Latitudes and  
a Radical Change to Cooler Immediately Following.**

St. Joseph, Mo., August 2.--My last bulletin gave forecasts of the storm wave to cross the coast from 10th to 16th, during which some very severe weather will occur in limited localities.

The next disturbance will reach the Pacific coast about 11th, cross the west

Eastern States 394a. The warm winds will cross the west of Rockies country about 15th, great central valleys 17th, Eastern States 18th.

Cool wave will cross the west of Rockies country about 18th, great central valleys 20th, Eastern States 22d.

Temperature of the week, August 9 to 15, inclusive, will average above the mean of the month in the great central valleys, lake regions and westward, and below the mean of the month in the Eastern States.

In the great central valleys rainfall will probably be deficient all about the 18th, followed by heavy showers to the close of the month. The dry period of the 18th would come earlier in the Eastern States, followed during the middle of the third of the month by heavy showers, the month closing out dry.

A few technical terms are necessary in weather lore, even in newspaper literature. A technical word may often seem unnecessarily complicated, but it leads into several lines of common language. The terms normal, mean and average are very useful and their technical meanings should be understood by all who read these bulletins. The common reader often regards these as synonymous terms, but they are not.

Normal is a constant process,  $\sigma$ , constant. The normal temperature of March at Cincinnati, Ohio, is 42.8. This is found by taking the average of all the Marches for many years past. But the mean or average temperature of March, at Cincinnati, Ohio, is above the mean temperature of the month in the great central valleys below the March normal. To get the mean temperature of a day we take the 7 a. m., 2 p. m., double the 9 p. m., divided by 4. Then we have the mean of the day.

Departure means that the temperature, or rainfall or air pressure is above or below the normal. There are hourly, daily, monthly, weekly and annual normals in use, but none of them are exactly correct. When I say that the middle of the month of August is above the mean temperature of the month in the great central valleys I do not then say that it will average above the normal, because the two terms may indicate opposite condition of weather. The mean of the month will be above the mean if the hottest part of the month is in the month will be above the mean it might be below the normal. Give these terms a little study.

Professor Davis of Harvard college is an authority on meteorology and has recently published a large volume on that subject. At page 335 he says: "It must be concluded from this that the limit of accuracy of weather prediction by present methods is practically reached and that no considerable advance over the inherent difficulties of the subject can be expected by any more distinctly new method of observing, charting or forecasting is introduced."

There is no doubt for it comes from the highest authority of one of the greatest colleges in the world. It can not be said that Professor Davis and Harvard college are prejudiced against the National weather bureau, and when he says that they can advance no further under their present system his statement should have weight.

The north pole is probably not the coldest part of the world. In Northwestern Siberia, at about 60 north latitude, the winters average 60 below zero, while 5 degrees further north the average is only 42 below. The center of the Siberian north magnetic pole is the coldest place known on the earth. It is very much colder (30 miles north of Kamaya City) than it is 200 miles further north because the former place is in the center of the North American north magnetic pole.

A battle royal must occur between Professor Higelow and the orthodox scientists. He says that increased energy in the sun corresponds to the glacial periods on earth and that the sun is a hot body and increased energy would certainly make it hotter on the earth. Higelow is right and now what will become of the old school of orthodoxy?

"Chinook" is a term that indicates a peculiar hot wind, the technical meaning of which is described as warm, dry and descending. The word comes from the Indian language and was first used in the Rocky mountains about the headwaters of the Columbia river. In western portions of the great central valleys the word is often misapplied to the ascending damp, warm winds. It has not been used to denote the destructive hot winds of the Western plains, but these hot winds, which so often and very quickly destroy the crops are true chinooks. They are not the same as the whole other class of winds are hot, damp and ascending. The foehn of Asia is the chinook of America. The chinook or destructive hot winds come from a high barometer, the common moist warm winds occur only in a low or storm center.

The rainfall of 1895 shows a departure from the normal in inches, as follows:

New England, 6 below;	Middle Atlantic States, 3 below;	South Atlantic States, 4 below;
Florida, 1 above;	East Gulf States, 5 below;	West Gulf States, 7 below;
Ohio Valley and Tennessee, 11 below;	lower lake region, 7 below;	upper lake region, 10 below;
central valley, 3 below;	Northeast Rocky mountain slope, 15 below;	middle Rocky mountain, eastern slope, 15 below;
Santa Fe basin, 15 below;	Santa Fe basin, its above;	Abilene, Texas, 7 below;
Salt Lake basin, 25 below;	North Pacific slope, 4 below;	Middle Pacific slope, 10 below;
Sierra Nevada, 10 below;	Sierra Nevada, 10 below;	

The average deficiency of rainfall in the United States, 1895, was 4 inches.

Dr. M. A. Veder of Lyons, N. Y., in a published scientific discussion of the fluctuations of storm tracks to the north and to the south of their average paths, says: "There is no evidence whatever that a magnetic storm is allied to or dependent upon heat radiations in any sense or to any extent whatever. Its methods of origination and propagation is quite different in every respect and any heating effects that may attend are incidental and remote."

Dr. Veder was an active participant at the late meteorological congress of the World's Fair, held at London, England, in 1904, and in the midst of the orthodox scientists who have all the time claimed that the electric forces observed in storms are results of friction in the elements and that heat is the moving force of all storms. In the above quotations Dr. Veder says the electric connection between the heat and the magnetism or electricity of storms maintains the storm and the heat experienced in the storm is only a local result.

ing denied of men. The law insists that it is shown inadequate the most lengthy portion of it being the list of counties exempted from its provisions, and the existing law, we are told, is "entirely unworkable" on all points for lack of enforcement. We urge that all true lovers of

probably be racing at Little Rock this fall. The Little Rock Jockey club proposes to hold a meeting of ten days or two weeks in November and are ready to make a large sum of money. It is desired to bring a good class of horses here. President John M. Gracie left

legitimate shooting and hunting grounds for the sportsmen of the northwestern section of the state. The game is discussed in a business manner for the purpose of land and take action before it is too late.

From Padgett, M. V. Fort, Ed Hutton, W. H. Jones, Jony Jones, M. R. Davis, R. A. Garland, H. E. Ambold, W. H. Brown, H. H. Harrison, G. B. Gerald and E. B. Thorp.

**CLARAGE THE WINNER.**

Wallace Miller of Texas Finished Second. Good Shooting.

Clawage, August 8.—The great Dupont live bird tournament has passed into history and Hert Clarage of Baltimore is the world's champion. The finish was of the heart disease kind. Even the spectators were rattled. Out of the 12 nominations only three were left. Clarage was the first to accomplish this feat. The Eastern contingent went wild. A few moments later the contest was over.

**McLOSKEY IS HERE.**

J. J. McCloskey has returned to Dallas from Dallas and will remain here until Tuesday when he will return East. The failure of Fort Worth to remain in the league caused him to abandon the Dallas club.

**BALLINGER TANS WON.**

Ballinger, Texas, August 8.—The players Hanger Tans and Brownwood Blues played a good game of ball here today. The result was a tie. The Ballinger Battery: Ballinger—Edmundson and Thompson; Brownwood—Strickland and Lattin.

**LEAGUE MEETING POSTPONED.**

Austin, Texas, August 8.—The baseball meeting, called for San Antonio has been postponed.

[illegible]

1921. Schilling hit a 2 hole with Gilbrede McAlister. He also lost two birds that fell dead out of the bounds. The shooting was of a particularly high class all the way through. Over a score of the competitors were in the division of the masses.

The 5-bird sweetpot, for which there were two entries, finished with twenty-three men dividing first money, to which the largest company added \$200. The prize was killed straight and thus ended the big grandest shooting tournament ever held in this or any other country. Not a hitch occurred, in spite of the magnitude of the enterprise.

**AUDITORIUMS VS. HOUSTON COLTS.**

A match game of baseball will be played at Forest Park this afternoon at 4:30 o'clock sharp between the Auditoriums and Houston Colts for \$25 a side. The game will be a hard fought and interesting one, as both teams have sustained

time was 11:42.

**A CRY OF WARNING.**

"I suffered for years and years with womb and kidney trouble in the worst forms.

"I had terrible pains in my abdomen and back and could hardly drag myself around; had the 'blues' all the time, was cross to every one."



only one defeat each so far this season, and that at the hands of the Americans, the recognized amateur champions of South Texas. The following is the make up and position of the players.

Auditorium, Postpaid, Houston Col.	Lee Burroughs .....	Pitcher .....	Lyons
	Werner .....	Catcher .....	Hodson
	Shelshaker .....	First Base .....	Mattes
	Angell .....	Second Base .....	Keller
	Fernandez .....	Third Base .....	White
	Brooding .....	Shortstop .....	J. Rafferty
	Carter .....	Left Field .....	Schuhls
	Franklin .....	Center Field .....	Clarke
	Davis .....	Right Field .....	O'Brien
		Substitute .....	F. Rafferty

**LITTLE ROCK WANTS RACING.**  
 Little Rock, Ark., August 4.—There will